

What is claimed is;

1. An electronic toothbrush comprising:
 a brush head portion having a bristle portion (2a),
 to be inserted into an oral cavity, for washing teeth; and
 a holder portion to be exposed outside the oral cavity,
 an n-type semiconductor is provided so as to be capable
 of receiving external light; and

a battery is provided so as to be capable of superposing
 an electric potential on the n-type semiconductor.

2. The electronic toothbrush according to claim 1, wherein
 the n-type semiconductor is TiO_2 , and output of the battery
 is more than 0.5 V and less than 3.0 V.

3. The electronic toothbrush according to claim 1 ~~or 2~~,
 wherein the battery is either one of a primary battery, a
 secondary battery and a solar battery, or combination thereof.

4. The electronic toothbrush according to claim 2 ~~or 3~~,
 wherein the TiO_2 is an anatase-type crystal.

5. The electronic toothbrush according to claim 2
~~any one of claims~~
~~2 to 5~~, wherein the TiO_2 is rod like and incorporated into
 the brush head portion, while the battery is button like,
 and these battery and the TiO_2 are made conductive via a
 conductive line incorporated into the brush head portion.

6. An electronic brush comprising:
 a brush head portion having a bristle portion,
~~characterized in that:~~
wherein

an n-type semiconductor is provided so as to be capable of receiving external light; and

a battery is provided so as to be capable of superposing an electric potential on the n-type semiconductor.

7. The electronic brush according to claim 6, wherein the n-type semiconductor is TiO_2 , and output of the battery is more than 0.5 V and less than 3.0 V.

8. The electronic brush according to claim 6 ~~or 7~~, wherein the battery is either one of a primary battery, a secondary battery and a solar battery, or combination thereof.

9. The electronic brush according to claim 7 ~~or 8~~, wherein the TiO_2 is an anatase-type crystal.

10. The electronic brush according to ~~any one of claims 7 to 9~~ ^{claim 7}, wherein the battery is embedded in the holder portion following the brush head portion, while the TiO_2 is attached in the vicinity of the brush head portion, and these battery and the TiO_2 are made conductive via a conductive line.